ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 770 to 814

A.

U. S. Fish Commission

Dredging Records

1880.

Dredge

TEMPERATURE RECORD.

Instrument used, Negretti Zambra 2nd ~~2 46~~

Current number of observation, 770.

Date, Aug- 6th 1880.

Locality, ~~Hull's Point~~ Narragansett Bay.

Bearings, Beavers Tail Light S 35 E.

7/8 of a mile

Time of day, 10 a m ; of tide, Ebb

State of sky, Cloudy

Temperature of air, 68

" surface of water, 66.8° (n.g - 40 001)

" at depth of fathoms,

" of bottom, 62.5° (n.g 42666)

Depth, in fathoms, 8¼

Nature of bottom, ~~Hard~~ Sand - 7 shells

Direction of ~~surface current~~, Wind - NE

Force of ~~surface current~~, " 4

Direction of ~~bottom current~~, Drift

Force of ~~bottom current~~, Strong Drift

Name of vessel, Fish Hawk

To what service attached, U S F Com.

Name and rank of commanding officer,

Lieut J L Lamson US Navy -

Name and position of observer,

H C Wayflick MD

N.B. All bearings Magnetic.

Variation 10.00 W

770.

REMARKS.

10 a.m. - Large halo around the sun

Echinarchnius parma. very abundant.
Mulinia lateralis "
Turbonilla
Natica triseriata
Mytilus edulis
~~Modiola modiolus~~
Callista convex
Cyprina Islandica Young.
Leptis hyalina
Snail encrusted.
fem worm.
Tellina tenera
Eupagurus longicarpus.
Solijo Realii med.
Astrangia Danae
Eupagurus pollicaris.

770-775 - Similar in character.

Hawk

TEMPERATURE RECORD.

Instrument used, Negretti Zambra -

Current number of observation, 771

Date, Aug- 6 1880

Locality, Narragansett Bay
Block Island Sound.

Bearings, Beacon Light bears N 35 E
3/4 of a mile

Time of day, 11.30 am ; of tide, ebb

State of sky, Cloudy -

Temperature of air, 68

" surface of water, 66.5 - (11 7 40 - 0 7)

" at depth of fathoms,

" of bottom, 62.5 (11 7 - 42660)

Depth, in fathoms, 8 1/4

Nature of bottom, Sand + Stones

Direction of ~~surface~~ current, NNW NE

Force of ~~surface~~ current, Mod - 3

Direction of ~~bottom~~ current, Both

Force of ~~bottom~~ current, Variable & Light

Name of vessel, Fish Hawk

To what service attached, U.S. F. Comm:

Name and rank of commanding officer,
Lieut J. L. Lamson USN.

Name and position of observer,

F. C. Woodruff Clerk USN

771.

REMARKS.

Raia eglanteria
Lophius Piscatorius
Pseudopleuronectes americanus.
Cancer irroratus (large)
Dyscotyphus canaliculatus
Loligo Pealii. also eggs with young hatching.
Mytilus edulis. large.
Neverita duplicata (dead)
Cliona sulphurea
Astrangia Danae.
Eupagurus pollicaris
Cancer borealis. / large.
Homarus Americanus.

Dredge –

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 772

Date, Aug 6 – 1880

Locality, Hannymessett Bay –

Bearings, Brewer Kirk S x E 1¼ Miles

Time of day, 11.35 a m ; of tide, ebb

State of sky, Cloudy

Temperature of air, 72

" surface of water, 69.5° (N 7 40071)

" at depth of fathoms,

" of bottom, 67 (N 7 42666)

Depth, in fathoms, 6

Nature of bottom, Sand & Shells –

Direction of ~~surface current~~, Wind NE.

Force of ~~surface current~~, Wind – 2

Direction of bottom current, Drift

Force of bottom current, Distance of Drift

Name of vessel, Fish Hawk

To what service attached, U S F Com:

Name and rank of commanding officer,

Lieut J L Lummis U S N

Name and position of observer,

H. C. Yarrow M.D.

772.

REMARKS.

Similar 770

Ptiloehinus pinguis
very abundant.

Found.

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 773

Date, Aug 6- 1880

Locality, Vineyard Sound Buoy -

Bearings, Beaver Tail Light S x E 1⅛ miles

Time of day, 11.45 am ; of tide, ebb

State of sky, cloudy -

Temperature of air, 72

" surface of water, 69.5 (73-40 007)

" at depth of fathoms,

" of bottom, 67 (73-42066)

Depth, in fathoms, 8

Nature of bottom, sand & shells -

Direction of ~~surface current~~, mid NE

Force of ~~surface current~~, mid, 3

Direction of ~~bottom current~~, Dough

Force of ~~bottom current~~, Dough

Name of vessel, Fish Hawk

To what service attached, U S F Com

Name and rank of commanding officer,

Lt Z L Tanner -

Name and position of observer,

H C Van Vliet M.D.

REMARKS.

Cyprinus Boreales (2)
Lebister.
Cyclina oculata.
Pseudopleuronectes americanus.
~~Pleuronectes platessoides~~ -
Lophosetta Maculata
Prionotus evolans.
Peprilus triacanthus
Lagodon rhomboides
Menticirrus argyrospe.
~~Dog~~. Raia eglanteria juv.
Raia eglanteria ♀ ♂
& spawning.
Squatina dumeril juv.

Engraulis mitchilli.
Loligo Pealii. (young and med.)

Knudsen -

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 774

Date, Aug 6 - 1880

Locality, Narragansett Bay -

Bearings, North End of Rock Island
one North ½ a mile.

Time of day, 1 PM ; of tide, Ebb

State of sky, Hc -

Temperature of air, 72

" surface of water, ~~69~~ 72 (72.07)

" at depth of fathoms,

" of bottom, 69 (69.66)

Depth, in fathoms, 10½

Nature of bottom, Sand & Mud

Direction of ~~surface current~~ wind - North -

Force of ~~surface current~~ wind, 2

Direction of bottom current, Unk

Force of bottom current, Unk

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt Farenholt USN

Name and position of observer,

Wm H Dall Asst

REMARKS.

Salvinia Cucullata (Roxb.)
Micrococcina prolifera.
Chalina arbuscula
Ptiloscheims pinguis (Lam.)
Empagrus longicarpus.

Form 6-

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 775

Date, Aug 6- 1880

Locality, Narragansett Bay -

Bearings, Middle of Hunter Island Light Bears South One Mile. Ft. Lang -

Time of day, 1.30 ; of tide, Ebb

State of sky, Oc -

Temperature of air, 79

" surface of water, 72 (42667)

" at depth of fathoms,

" of bottom, 68 (42666)

Depth, in fathoms, ~~4~~ 12

Nature of bottom, Gravel - Sand & Mud.

Direction of ~~surface current~~ wind, Calm

Force of ~~surface current~~ wind, 0

Direction of ~~bottom current~~ Light,

Force of bottom current, Light

Name of vessel, Fish Hawk

To what service attached, U S FC

Name and rank of commanding officer,

Lt J L Farmer U.S.N.

Name and position of observer,

H. C. Yarrow M.D.

REMARKS.

Pleurotomas, Harpulinas
do Cylene
Lentiga minus
Buccinum adspersum S.
Nassa arenosa
Physa ?
Lophopleta maculata
Neira splendens
Libinia canaliculata, many large
Sycotypus " several
Cancer irroratus
" borealis.
Fulgar carica
Arbacia punctulata, 1 small
Asterias Forbesii many, food size
Cribrella sanguinolenta.
Hemaus Americanus, several young
Micraciona prolifera
Chalina arbuscula
Chione elephantea
Astarte Dana (abdt.)
Metridium marginatum.
Mytilus edulis. very many!!!
The bottom was a mussel bed
with some large stones, about
10 bushels of mussels came up.

Dredge -

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 776

Date, Aug 7-

Locality, Narragansett Bay -

Bearings, Ft Adams Flag - N W ¾ W ½ W

5/8 for mile - Mag:

Time of day, 9.45 - a.m. of 11th

State of sky, Clear -

Temperature of air, 72

" surface of water, 67 ½ (Thermometer)

" at depth of fathoms.

" of bottom. 5-8 ½ (Thermometer)

Depth, in fathoms, 27 ½

Nature of bottom, Sand & Shells -

Direction of ~~surface current~~, Wind - N

Force of ~~surface current~~, Mod - 1

Direction of ~~bottom current~~, Drift

Force of ~~bottom current~~, Light

Name of vessel, Fish Hawk

To what service attached, U. S. F. C

Name and rank of commanding officer,

H. J. L. Lennon.

Name and position of observer,

H. C. Yarrow M.D.

776.

REMARKS.

Aleyonedium rubrum

Transcript -

TEMPERATURE RECORD.

Instrument used, Negretti & Zambra

Current number of observation, 177

Date, Aug 7 - 1880

Locality, Narragansett Bay -

Bearings, Ft Dumpling E ½ N 4 m ½ m -

5/8 of a mile - Mag -

Time of day, 10 20 am : of tide, Ebb

State of sky, Clear -

Temperature of air, 72°

" surface of water, 67½ (44-057)

" at depth of fathoms,

" of bottom, 58½ (42656)

Depth, in fathoms, 27½

Name of bottom, Rock & Shells -

Direction of ~~surface current~~ wind, N

Force of ~~surface current~~ wind, 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

Lt J. Lamson

Name and position of observer,

Wm Wood M.D.

REMARKS.

Larus Ephamēria
Pseudoplumoreetes - Americanus
Pseudohirundo Rectatus
Procellaria Capensis
" " very young.
Lophophaetta ornatae
Lanius Collaris ad et pullus
Alcedo ispida Argentata juv.
Prionites Viridicauda
Phyeis Senuis

Solitaire Pealei, medium and large quantities of eggs. Drink nests and Plumage.

Transit -

TEMPERATURE RECORD.

Instrument used, Negretti Zambra -

Current number of observation, 774

Date, Aug - 7 1880

Locality, Vineyard Sound -

Bearings, Gay Head Light N 36° E - 800 yards -

Time of day, 10. 40 a.m.; of tide, Ebb

State of sky, Clear

Temperature of air, 76

" surface of water, 70 (4077)

" at depth of fathoms,

" of bottom, 57 1/2 (42666)

Depth, in fathoms, 26

Nature of bottom, Gravel & shells -

Direction of ~~surface~~ current, Mid N

Force of ~~surface~~ current, Weak 1

Direction of ~~bottom~~ current, Light

Force of ~~bottom~~ current, Light

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

Lt J. L. Lamman

Name and position of observer,

H. C. Bumpus M.D.

REMARKS.

Rana Pipiens Linn.
Pseudophlomus tus Americanus
Lantanotabrus adelphensis.
Lantanya ovilis
Physcis tenuis
Hemitomus Cryptospora

Meyonidium rubrum
Nemerlesia antennina
Hermanus American, many, small to Med.
Loligo Pealii, rue Main

Dredge -

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 779

Date, Aug 7 '80

Locality, Narragansett Bay

Bearings, Lt Dumpling N E

1 1/4 Miles

Time of day, 11 05 , at take

State of sky, Clear

Temperature of air, 78

" surface of water, 68 (40° 7 64)

" at depth of fathoms,

" of bottom, 57 1/2 (42° 7 66)

Depth, in fathoms, 22 1/2

Nature of bottom, Sand & Gravel

Direction of ~~surface~~ current, West S W

Force of ~~surface~~ current, Brisk 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, N L H E

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

F. Vanderbilt U.S.F.

REMARKS.

Alexandrium pubrenum

Vessel -

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 780

Date, Aug 7 - 1880

Locality, Narragansett Bay

Bearings, Beaver Tail Lt west

Dist mile. Mag:

Time of day, 11.30 P.M.; of tide, Ebb

State of sky, Clear

Temperature of air, 79

" surface of water, 69 (40007)

" at depth of fathoms,

" of bottom, 57 1/2 (42666)

Depth, in fathoms, 18

Nature of bottom, Sand & shells -

Direction of ~~surface current~~, NNW SW

Force of ~~surface current~~, Light - 1

Direction of bottom current,

Force of bottom current,

Name of vessel, U.S. Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

H.J. Lemon

Name and position of observer,

H. Wm Welch M.C.

780.

REMARKS.

Rana Cyclanitris
Pseudhemidactylus Brookii
Pseudoplumeculus Mercurius
Lobopeltis maculata
Physis Mercurius

Loligo Realii, many young.

Form.

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 781

Date, Aug 7 1880

Locality, Narragansett Bay -

Bearings, Rocky Point N by W

one mile -

Time of day, ~~12 M~~ ; of tide, Ebb

State of sky, Clear

Temperature of air, 75

" surface of water, 67 (40 ev 7)

" at depth of fathoms,

" of bottom, 57 (42666)

Depth, in fathoms, 16

Nature of bottom. Rock

Direction of ~~surface~~ current, Variable S W

Force of ~~surface~~ current, Variable 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached. U S F C

Name and rank of commanding officer,

Lt J L Zamison

Name and position of observer,

H. C. Ravenel M.D.

REMARKS.

R. Eglanteria
Pseudohemibasis lentatus
Pseudoplasmodium omnicanus
Physica tenuis
Peyssonnelia maculata
Neohomaria clypeata
Prionodes conte

Dredge.

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 782

Date, Aug. 12 1880

Locality, Narragansett Harbor

Bearings. Beaver Tail Lt. N ¾ W.

1¼ Miles.

Time of day, 9.30 ; of tide, flood

State of sky, Cloudy with rain.

Temperature of air, 68 (No 1)

" surface of water, 70 (40007)

" at depth of fathoms,

" of bottom, 60 (42666)

Depth, in fathoms, 16

Nature of bottom, Sand & Shells

Direction of ~~surface~~ current, Wind N

Force of ~~surface~~ current, Wind 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer.

Lt. J. Sumner.

Name and position of observer.

H. C. Ravenel M.D.

REMARKS.

dysgnathus furens.

Transit

TEMPERATURE RECORD.

Instrument used, Negretti Zambra

Current number of observation, 783

Date, Aug - 12 -

Locality, Newfoundland Harbor

Bearings, Bonaventure Head S 60 E N x E

Ebb Tide

Time of day, 10.15 ; of tide, Flood

State of sky, cloudy - rain

Temperature of air, 70

" surface of water, 70 (4207)

" at depth of fathoms,

" of bottom, 55° (42656)

Depth, in fathoms, 17 ½.

Nature of bottom, Sand -

Direction of surface current, Wind N

Force of surface current, Wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

Lt J L Tanner -

Name and position of observer,

W. Faudlick M.D.

REMARKS.

Pseudorhombus oblongus
Pleuronectes americanus (yg)
Lophotus maculata
Physis ~~[illegible]~~ ~~[illegible]~~ tenuis
Peria ofcantaria.

Dredge -

TEMPERATURE RECORD.

Instrument used, N. Z 784

Current number of observation,

Date, Aug 12

Locality, Narragansett Bay

Bearings, Point Judith - N½S -

4 3/4 Miles

Time of day, 10.50 ; of tide, flood

State of sky, Cloudy - rain

Temperature of air, 71.5

" surface of water, 71 (41727)

" at depth of fathoms,

" of bottom, 53 ½ (42066)

Depth, in fathoms, 20

Nature of bottom, sand

Direction of ~~surface~~ current, variable - N N

Force of ~~surface~~ current, variable - 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF C

Name and rank of commanding officer, Lt J L Lamson

Name and position of observer, F. C. Chatfield M.D.

REMARKS.

Form -

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 785

Date, Aug 12

Locality, Narragansett Bay -

Bearings, Bonanza Reef Lt Ship N½W 2½ miles ~~Distance~~

Time of day, 11.30 ; of tide, Flood

State of sky, Cloudy - rain -

Temperature of air, 72

" surface of water, 71 (4007)

" at depth of fathoms,

" of bottom, 54½ (42666)

Depth, in fathoms, 19½

Nature of bottom, Sand

Direction of ~~surface current~~, Flood N W

Force of ~~surface current~~, Flood 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H Z Lamb

Name and position of observer,

H. Van Vleet mk.

REMARKS.

Vessel caught in ice and
obstructions in 20 fathoms water
Parted 2 lines to detach the
sink stroke mine right 2 miles
N. E. Point of Barren.

Dredge

TEMPERATURE RECORD.

Instrument used. N 7

Current number of observation, 786

Date. Aug 12

Locality. Narragansett Bay

Bearings. Beacon Rock Lt. Ship NNW ½ W - 4½ Miles

Time of day 7.35 P M ; of tide. H W

State of sky, Clr

Temperature of air, 74

surface of water, 71 (40207)

at depth of fathoms,

of bottom, 53 1/2 (42666)

Depth, in fathoms, 19

Nature of bottom, Mud,

Direction of ~~surface current~~. Nearly N W

Force of ~~surface current~~. Nearly 1

Direction of bottom current.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached. U S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer.

H C Yarrow Asst M.D.

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 787

Date, Aug 12

Locality, Narragansett Bay -

Bearings, Prudence Pt Lt Hse -

NNW½W- 4 Miles

Time of day, 3 P M ; of tide, Ebb

State of sky, Le

Temperature of air, 74

" surface of water, 71 (40007)

" at depth of fathoms,

" of bottom, 53½ (42666)

Depth, in fathoms, 19

Nature of bottom, Sand & Mud

Direction of ~~surface current~~, Mod N W

Force of ~~surface current~~, Mod 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt W L Lamar

Name and position of observer,

H C Yarrow M D

REMARKS.

Dredge -

TEMPERATURE RECORD.

Instrument used. N 3

Current number of observation. 788

Date. Aug 13

Locality. Vineyard Sound Bay

Bearings. ~~[redacted]~~ Brenton's Reef Lt. Ho. N. N W 3/4 W - 6 Miles

Time of day. 10.42 am ; of tide. flood

State of sky. Clear

Temperature of air. 72

" surface of water. 71 (41992)

" at depth of fathoms.

" of bottom. 54 (62666)

Depth, in fathoms. 18

Nature of bottom. fine sandy mud

Direction of ~~surface current~~. Mod - N W

Force of ~~surface current~~. Mod - light -

Direction of bottom current.

Force of bottom current.

Name of vessel. Fish Hawk

To what service attached. U.S. F.C.

Name and rank of commanding officer.

Lt J L Lamson

Name and position of observer.

H. C. Fairchild M.D.

REMARKS.

Otter Trawl

TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 789

Date, Aug 13

Locality, Narragansett Bay -

Bearings, Prudence Pt Lt ship
N. N. W. 3/4 W. 5 1/4 miles

Time of day, 11.05 ; of tide, flood

State of sky, Clear -

Temperature of air, 70

" surface of water, 71 (40007)

" at depth of fathoms,

" of bottom, 54 (42666)

Depth, in fathoms, 17 1/2

Nature of bottom, Sandy Mud

Direction of ~~surface current~~, Mod N W

Force of ~~surface current~~, Mod 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Ut FC

Name and rank of commanding officer,

Lt J L Lawrence

Name and position of observer,

H C Ravenel Asst M.D.

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 790

Date, Aug 13

Locality, Narragansett Bay

Bearings, Pt Judith - W. by N 3/4 N -
8 1/2 miles -

Time of day, 11.55 - ; of tide, flood

State of sky, Clear

Temperature of air, 70

" surface of water, 71 (42667)

" at depth of fathoms,

" of bottom, 54 1/2 (42666)

Depth, in fathoms, 16

Nature of bottom, fine sand

Direction of ~~surface current~~, Mod S

Force of ~~surface current~~, Mod 1

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H J Lemon

Name and position of observer,

H C Yarrow M.D.

REMARKS.

Dredge -

TEMPERATURE RECORD.

Instrument used, M. 3

Current number of observation, 791

Date, Aug - 13

Locality, Narragansett Bay

Bearings, Ft Adelaide N N W - 6

12½ miles -

Time of day, 1-18 p m ; of tide, flood

State of sky, Clear -

Temperature of air, 72

" surface of water, 71 (4 m 7)

" at depth of fathoms,

" of bottom, 60 (42 m 1)

Depth, in fathoms, 20

Nature of bottom, Sand.

Direction of ~~surface~~ current, Mod SS W

Force of ~~surface~~ current, Mod 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H. C. L. Ziemann

Name and position of observer,

H. C. Bumpus Jr.

This belongs to 792.

REMARKS.

Pseudopleuronectes americanus
Lophopsetta maculata.
Pseudorhombus dentatus.
Liparis anguillaris
Raia Eglanteria.
Hippocampus antiquorum.

Fraser

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 792

Date, Aug 13

Locality, Narragansett Bay -

Bearings, Pt Judith NNW

12 miles

Time of day, 1.50 ; of tide, H W

State of sky, Clear

Temperature of air, 72

" surface of water, 71 (1500)

" at depth of fathoms,

" of bottom, 54 (4200)

Depth, in fathoms, 18

Nature of bottom, Sand.

Direction of ~~surface current~~, Wind S W

Force of ~~surface current~~, Wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Tennis

Name and position of observer,

H C Fraser Asst

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, H 3

Current number of observation, 793

Date, July 14

Locality, Narragansett Bay —

Bearings, Pt Judith N. 1/2 W

6 miles

Time of day, 9 a.m. ; of tide.

State of sky, Cloudy —

Temperature of air, 71

" surface of water, 69 (4777)

" at depth of fathoms,

" of bottom, 63 (42666)

Depth, in fathoms, 19

Nature of bottom, Sand

Direction of ~~surface current~~, Mid S.W.

Force of ~~surface current~~, Mid. 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

Lt. J.E. Lunnen

Name and position of observer,

H. C. Bumpus M.D.

REMARKS.

Trunk

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 794

Date, Aug 14

Locality, Narragansett Bay

Bearing, St Judith N 11 W ½ W

5 miles

Time of day, 9.45 ; of tide.

State of sky, Cloudy —

Temperature of air, 70

" surface of water, 69 (69.7)

" at depth of fathoms.

" of bottom, 53 (52.66)

Depth, in fathoms, 19

Nature of bottom, Sand.

Direction of ~~surface current~~, Mod S W

Force of ~~surface current~~, Mod 4

Direction of bottom current.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

H C Yarrow M D.

11

REMARKS.

Pseudopleuronectes americanus.
Lobiopsetta maculata.
Pseudorhombus triocyes
Physis tenuis
Merluccius bilinearis
Ioarces anguillaris
Prionotus carolinus.
Raia laevis
Eglanteria.

Dredge

TEMPERATURE RECORD.

Instrument used, No 3

Current number of observation, 795

Date, Aug 14

Locality, Narragansett Bay

Bearings, Pt Judith N 8 W ½ W

4 miles

Time of day, 10.25 ; of tide.

State of sky, Cloudy

Temperature of air, 71

" surface of water, ~~69~~ 69 (42662)

" at depth of fathoms.

" of bottom, 53 (42666)

Depth, in fathoms, 19

Nature of bottom, Sand.

Direction of ~~surface current~~, Mod SW

Force of ~~surface current~~, Mod 4

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J H Lemmon

Name and position of observer,

H C Yarrell M M

4

REMARKS.

Form C

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 796

Date, Aug 14

Locality, Narragansett Bay

Bearings, Pt Judith N N W

3/4 Miles-

Time of day, 11 am ; of tide.

State of sky, Cloudy -

Temperature of air, 70

" surface of water, 69 (41007)

" at depth of fathoms,

" of bottom, 53 (42666)

Depth, in fathoms, 19

Nature of bottom, Mud

Direction of ~~surface current~~, Mark E N

Force of ~~surface current~~, Mark 4

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Lamson

Name and position of observer,

H McCulloch M.D.

REMARKS.

Pseudopleuronectes americanus
Lophopsetta maculata.
Pseudorhombus dentatus
Phycis tenuis.
Raia laevis
Pleuronectes maculatus.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z 797

Current number of observation,

Date, Aug 14

Locality, Narragansett Bay

Bearing, Pt Judith N W by ½ W

2 ¼ Miles

Time of day, 11.48 ; of tide,

State of sky, Cloudy.

Temperature of air, 70

" surface of water, 68 ½ (4 in 7)

" at depth of fathoms,

" of bottom, 53 (4 2666)

Depth, in fathoms, 16 ½

Nature of bottom, Sand.

Direction of ~~surface~~ current, Mid S W

Force of ~~surface~~ current, Mid 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Lemmon

Name and position of observer,

H C Bumpus Mid.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 798

Date, Aug 14

Locality, Narragansett Bay.

Bearings, Pt Judith Lt NW ¾ W ~ 1¼ Miles

Time of day, 12.16 PM ; of tide.

State of sky, Cloudy.

Temperature of air, 71

" surface of water, 66 (40007)

" at depth of fathoms,

" of bottom, 59 (42166)

Depth, in fathoms, 12½.

Nature of bottom, Sand & Shells.

Direction of ~~surface current~~, Mod S W

Force of ~~surface current~~, Mod 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H J Lamm

Name and position of observer,

F W Kelley Asst U.S.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 799

Date. Aug 14

Locality. Narragansett Bay

Bearings, Pt Judith - N ½ W

1 3/4 miles

Time of day, 12.30 ; of tide.

State of sky, Cloudy -

Temperature of air, 70

" surface of water, 67 (60.07)

" at depth of fathoms,

" of bottom, 61 (42.66)

Depth, in fathoms, 13

Nature of bottom. Black sand

Direction of ~~surface~~ current. Mod SW

Force of ~~surface~~ current. Mod 3

Direction of bottom current.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached. U S F C

Name and rank of commanding officer,

H. J. Lamer

Name and position of observer.

Ft Wantic Mk.

799.

REMARKS.

~~Physalis viscosa?~~

Physalis lanuginosa, Juss.

Transcript

TEMPERATURE RECORD.

Instrument used. N 3

Current number of observation. 800

Date. Aug 16.

Locality. Massachusetts Bay -

Bearings. Portland Hd Light -

N N W 3/4 W 2 1/4 Miles -

Time of day. 11.35 am, of tide.

State of sky. Clear

Temperature of air. 63

" surface of water. 70 (40007)

" at depth of fathoms,

" of bottom. 69 1/2 (42666)

Depth, in fathoms. 4

Nature of bottom. Sand

Direction of ~~surface~~ current. Mid R

Force of ~~surface~~ current. Mod 3

Direction of bottom current.

Force of bottom current.

Name of vessel. Fish Hawk

To what service attached. U S F C

Name and rank of commanding officer.

Lt. J. H. Lucas

Name and position of observer.

H. C. Ravenel M.D.

REMARKS.

Travel -

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 801

Date, Aug 16

Locality, Narragansett Bay -

Bearings, Pollock Point Light

N ¾ W 2½ Miles

Time of day, 12. 20 ; of tide,

State of sky, Clear

Temperature of air, 65°

" surface of water, 71 (40007)

" at depth of fathoms,

" of bottom, 68 (42666)

Depth, in fathoms, 4½

Nature of bottom, Mud

Direction of ~~surface current~~, Mid N E

Force of ~~surface current~~, Mid & Light Airs

Direction of ~~bottom current~~,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H. L. Lawrence

Name and position of observer,

H. C. Bumpus M.D.

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 802

Date, Aug 16

Locality, Between Woods Hole and Buzz

Bearings, Hadley Rock - Mush.

3/4 of a mile

Time of day 2.45 ; of tide.

State of sky, Clear

Temperature of air, 68

" surface of water, 70.5 (40707)

" at depth of fathoms.

" of bottom, 62 (42666)

Depth, in fathoms, 12 1/2

Nature of bottom, Mud

Direction of ~~surface current~~ Mid NE

Force of ~~surface current~~, Mid light air

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

L.J.L. Lawrence

Name and position of observer,

H.C. Chadwick m.d.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 803

Date, Aug 16

Locality, Narragansett Bay

Bearings,

Time of day, 3.25 ; of tide,

State of sky, Clear

Temperature of air, 67

" surface of water, 69 (42667)

" at depth of fathoms,

" of bottom, 60 (42660)

Depth, in fathoms, 20

Nature of bottom, Sand

Direction of surface current, Wind - SSE

Force of surface current, Wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

H.B.L. Lamson

Name and position of observer,

Edward Clark M.D.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 804

Date, Aug 17

Locality, Narragansett Bay

Bearings, Castle Hill Light NE ½ E

8¾ Miles

Time of day, 11.15 ; of tide.

State of sky, Clear

Temperature of air, 68

" surface of water, 66 (4777)

" at depth of fathoms.

" of bottom, 59 (02666)

Depth, in fathoms, 11½

Nature of bottom, Sand & Rock -

Direction of ~~surface current~~, Mod SW

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, Mod N. W. & S. -

Force of ~~bottom current~~, Mod ½ mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J. L. Lawton

Name and position of observer,

H. C. Ravenel Asst Nat.

1st 805-

Hardpan - REMARKS.

805 Same as 804 -
fine sand -

Temple

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 806

Date. Aug 17

Locality, Narragansett Bay -

Bearings. Castle hill Lt. S.W.E.

7 3/4 Miles -

Time of day. 12 M ; of tide.

State of sky. Clear -

Temperature of air. 69

" surface of water. 67 (40707)

" at depth of fathoms.

" of bottom. 56 (42666)

Depth, in fathoms. 14

Nature of bottom, Sand

Direction of ~~surface current~~, Mid. S.W.

Force of ~~surface current~~, Mid. 2

Direction of ~~bottom current~~ Mid. W.S.W.

Force of ~~bottom current~~, Mid. 1/2 mile

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

H.B.L. Lawrence

Name and position of observer,

H. C. Yarrow M.D.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, NZ 808

Current number of observation,

Date, Aug 17

Locality, Narragansett Bay -

Bearings, Castle Island Light NE ½ E 7 3/4 Miles

Time of day, 12.50 P.M.; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 67 (4070 F)

" at depth of fathoms.

" of bottom, 60 (4266)

Depth, in fathoms, 12 ¼

Nature of bottom, Sand

Direction of ~~surface~~ current, Wind S W

Force of ~~surface~~ current, Wind 2

Direction of bottom current, North S W ½ S -

Force of bottom current, North ½ Mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H. J. L. Lawrence.

Name and position of observer,

W. Wirt Mills M.D.

Dredge

TEMPERATURE RECORD.

Instrument used, 2 3

Current number of observation, 808

Date, Aug 17

Locality, Narragansett Bay

Bearings, Castle Hill Light N 1/2 E 1/2 E - 8 Miles

Time of day, 1.20 ; of tide,

State of sky, Clear

Temperature of air, 76

" surface of water, 67 (67.4)

" at depth of fathoms,

" of bottom, 60 (60.2)

Depth, in fathoms, ~~4~~ 13

Nature of bottom, Sand

Direction of ~~surface current~~, Wind S W

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift S W by S 1/2 S

Force of ~~bottom current~~, Drift 1/2 knot

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

H C Chadwick M.D.

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, A 3

Current number of observation, 509

Date, Aug 17

Locality, Massachusetts Bay

Bearings, Cuttyhunk Light - NE x E

12 Miles

Time of day, 1:5-5 ; of tide.

State of sky, Clear

Temperature of air, 70

" surface of water, 67 (4267)

" at depth of fathoms.

" of bottom, 52 (4266)

Depth, in fathoms, 21 1/4

Nature of bottom, fine sand

Direction of ~~surface~~ current, Mid S W

Force of ~~surface~~ current, Mid 2

Direction of ~~bottom~~ current, North W ½ S

Force of ~~bottom~~ current, North ½ scale

Name of vessel, Light House

To what service attached, Light

Name and rank of commanding officer,

Lt J L Kennon

Name and position of observer,

H C Bumpus M.D.

S. P.

REMARKS.

Seq. Gymnasium legalis 7th January.

Travel

TEMPERATURE RECORD.

Instrument used, N 7 810

Current number of observation,

Date, Aug 17

Locality, Entering ancon Bay -

Bearings Cuttyhunk Light NE x E

12½ Miles

Time of day, 2.15 — : of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 67 (40 corr)

" at depth of fathoms,

" of bottom, 52 (42.65)

Depth, in fathoms, 21

Nature of bottom, Sand & Gravel -

Direction of ~~surface current~~, Mar S W

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, Light W & W

Force of ~~bottom current~~, Light 1/4 Miles

Name of vessel, ~~Endeavor~~ Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Lamm

Name and position of observer.

H. C. Yarrow M.D.

6.14

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 811

Date, Aug 17

Locality, Narragansett Bay -

Bearings, Cutty Hunk Light - E NE ½ E.

1 7/4 Miles

Time of day, 8 20 ; of tide,

State of sky, Clear

Temperature of air, 67

" surface of water, 67 (42667)

" at depth of fathoms,

" of bottom, 53 (42666)

Depth, in fathoms, 19½

Nature of bottom, Sand - fine

Direction of ~~surface current~~, Mid - S 3/4 W

Force of ~~surface current~~, Mid - 2

Direction of ~~bottom current~~, Length - S W

Force of ~~bottom current~~, Length - ¼ Mile

Name of vessel, Fish Hawk

To what service attached, Off R I

Name and rank of commanding officer,

H B L Lamman

Name and position of observer,

H C Mac Whirk M D

7r

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, 23

Current number of observation, 8 [illegible]

Date, Augt 4 - 1875

Locality, [illegible] Atlantic Ocean -

Bearings, Block Island N N W ½ W

20 Miles

Time of day, 11.30 am of tide.

State of sky, L. C.

Temperature of air, 70

" surface of water, 66 (4 0 0 7)

" at depth of fathoms.

" of bottom, 46 (4 2 6 0)

Depth, in fathoms, 28½

Nature of bottom, Sand

Direction of ~~surface current~~, Variable

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, Variable NW

Force of ~~bottom current~~, Light 1/4 mile

Name of vessel, Fish Hawk

To what service attached, Coast C

Name and rank of commanding officer,

Lt Com Lemmon

Name and position of observer,

H. C. Yarrell Asst Surg USN

REMARKS.

Frank

TEMPERATURE RECORD.

Instrument used, A 3

Current number of observation, 813

Date, Aug 18

Locality, Martin Reefs -

Bearings, Pilot Island S 22 W 1/4 W 20 Miles

Time of day, 11.53 ; of tide,

State of sky, L C

Temperature of air, 70

" surface of water, 67 (40007)

" at depth of fathoms,

" of bottom, 46 (42666)

Depth, in fathoms, 26 1/2

Nature of bottom, sand

Direction of ~~surface current~~, Mid S E

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, North ~~S W~~ S E -

~~Force of bottom current~~, Mod 1/4 m -

Name of vessel, Pilot Hawk

To what service attached, U S F C

Name and rank of commanding officer, Lt L Lawrence

Name and position of observer, H. VanPelt M.D.

REMARKS.

Ophioglypha Lamii
Echinarachnius parma.
Pecten Islandicus.
Var. Zschizoanch.
Pandalus montagui
Spirontes americanus
Nephtys Simpsonii
Buccinum undulatum
Cyprina Islandica
Cruciburlum stricatum
Leptasterias Comptus.
Cribrella sanguinolenta
Asterias vulgaris
813 Limanda ferruginea
Raia Cirnacea?

" Sp.
Cottus 18 Spinosus
Physis Tomus, P. C Linn
Zoarces anguillaris
Myoxocinus bilineatus
Liparis Sp. in Pecten Tenuicost.

Travel -

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 61 1/2

Date, Aug 18

Locality, Atlantic Ocean.

Bearings, Block Island Lgh - 2 N W 5/8 W

18 Miles

Time of day, 1. P.M. ; of tide,

State of sky, b.c.

Temperature of air, 72

" surface of water, 72 (40 w 7)

" at depth of ~~10~~ 5 fathoms, 71. (10 of 57) (20 of 49)

" of bottom, 46 (42 66)

Depth, in fathoms, 27 1/2

Nature of bottom, rund + Gravel.

Direction of ~~surface current~~, Mod S E

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, Unfit - ~~N~~ S W

Force of ~~bottom current~~, ds 1/4 M

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H J L Lemon

Name and position of observer,

H C Chadwick M.D.

REMARKS.

Pecten tenuicostata fav
asterias vulgaris
Lepidasteria compta abund ant
Cribella sanguinolenta, fav
Buccinum undatum abdt
Cyprina Islandica abdt
Echinarachnius parma fav
Ophioglypha lacerti, one
sp. Lymanda ferruginea
Lophius piscatorius.
Pseudorhombus oblongus
Phycis tenuis, P. chuss
Raia sp.
Zoarces anguillaris
Cottus 18-sp. inermis
Merluccius bilinearis
Raia erinacea?

1 1/4 - 59. Jewel

S.H. 2, 2, 2, 4 - Pl. 3, N 65 W

Brun. H.H.N. #14 C

239
19 1/2

Dr. Van Vliet
Wis. Fish Hawk.
Augs. 1880.

2/57
28 1/2

2/55
27 1/2